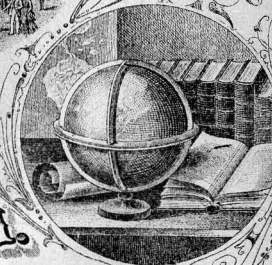
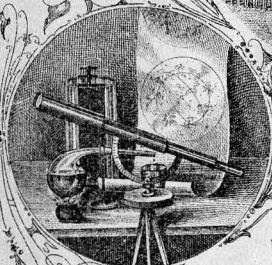
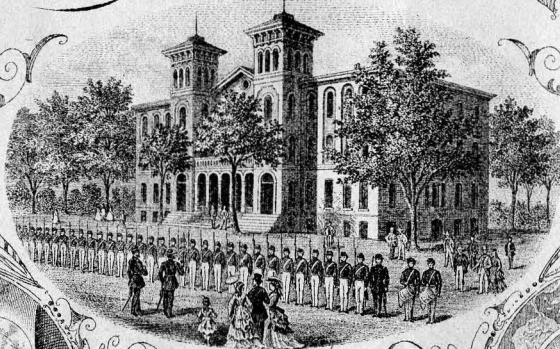
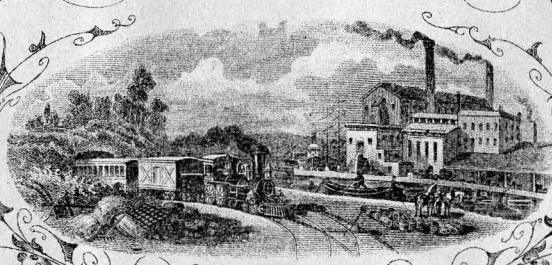


**ALABAMA**

**Agricultural and Mechanical College**



**AUBURN, ALA.**



# HOME AND SCHOOL

A MONTHLY JOURNAL OF

*POPULAR EDUCATION, SCIENCE, AND LITERATURE.*

PROSPECTUS FOR 1873.

HOME AND SCHOOL enters its second year with the confidence born of its past success. So encouraged are its publishers that they have determined to *increase its size sixteen pages without adding to the subscription price.* Its beautiful typography, which has elicited the warmest encomiums from the press, will be preserved. Being now thoroughly identified with every proper effort to educate the masses of the people, it will continue to aid state and county administrations in developing the common-school systems of the country. The aim of its editor is to make HOME AND SCHOOL a record of progress in literature and morals, and a true reflection of the sentiment of the people of the South and West in matters of home and school training. It will contain original articles on subjects of interest to the teacher and general reader, which will be treated in a popular, suggestive, and practical style. It is a monthly journal of SCIENCE, LITERATURE, and EDUCATION—in the highest and truest sense—for the PEOPLE.

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CATALOGUE AND CIRCULAR

OF THE

AGRICULTURAL *and* MECHANICAL COLLEGE

OF ALABAMA.

AUBURN, LEE COUNTY.

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LOUISVILLE:

PRINTED BY JOHN P. MORTON & COMPANY

1872.

"First the Blade, then the Ear,



After that the Full Corn in the Ear."



# AGRICULTURAL AND MECHANICAL COLLEGE OF ALABAMA.

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## ESTABLISHMENT OF THE COLLEGE.

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THE AGRICULTURAL AND MECHANICAL COLLEGE OF ALABAMA is both state and national in its origin.

After long discussions Congress passed the necessary law in July, 1862, making the magnificent grant of public lands out of which has arisen that long list of Agricultural Colleges and Industrial Universities now scattered over the continent. Alabama accepted, on December 31, 1868, her portion of the United States scrip or lands granted by Congress, amounting to two hundred and forty thousand acres, for which she realized \$216,000. Her legislature, by act approved February 26, 1872, accepted also the proposition made by the Trustees of the East Alabama College; said Trustees donating the buildings, property, and lands (two hundred acres, amounting to over \$100,000) to the state, upon condition that the legislature locate the Agricultural and Mechanical College at Auburn, in Lee County. On the 20th of March <sup>1872</sup> following the Board of Directors met at Auburn in the college-building, adopted a course of study for the students, elected a faculty of instruction, and passed laws and regulations for the government of the College.

All the students of the East Alabama College who came up to the requirements of admission became students of the

Agricultural and Mechanical College; and from the 25th of March till the close of the session (October 30th), a period of only seven months, and that during the heated summer, there were in attendance *one hundred and three students*, of whom *six* were graduated; a success to which it is believed the friends of the College may refer with becoming confidence and just pride.

## BOARD OF DIRECTORS.

---

HON. WM. H. BARNES, PRESIDENT,

HIS EXCELLENCY THE GOVERNOR OF ALABAMA, *ex-officio*,

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## REGISTER OF STUDENTS.

Names.	Residence.
ALLEY, E. L.	Tuskegee, Ala.
ALEXANDER, W. I.	Lowndes Co., Ala.
BARBER, J. J.	Rutledge, Ala.
BOSWELL, B. F.	Selma, Ala.
BRINSON, C. C.	Russell County, Ala.
BROCK, W. L.	La Fayette, Ala.
BROWN, T. B.	Montgomery, Ala.
BUNKLEY, G. S.	Fitzpatrick, Ala.
BURT, R. E. L.	Salem, Ala.
CAMPBELL, W. W.	Auburn, Ala.
CHAMBERLAIN, J. T.	Birmingham, Ala.
COBB, T. L.	Auburn, Ala.
COOPER, L. L.	Lee County, Ala.
COTHRAN, E. T. M.	Dallas County, Ala.
CRAWFORD, J. R.	Auburn, Ala.
CRITTENDEN, GEO. S.	Oakey Streak, Ala.
DAVIS, R. H.	Autaugaville, Ala.
DAVIS, T. F.	Autaugaville, Ala.
DAY, J. H.	Lee County, Ala.
DICKEY, L. C.	Montgomery Co., Ala.
DILLARD, G. E.	Auburn, Ala.
DOWDELL, JAS. S.	Auburn, Ala.
DOWDELL, R. M.	Tuskegee, Ala.
DOWDELL, S. C.	Auburn, Ala.
DRAKE, M. V.	Auburn, Ala.
ELLISON, W. F. A.	Hurtsville, Ala.
FITZHUGH, R. K.	Augusta, Ark.
FLOYD, J. M.	Cusseta, Ala.
FRAZIER, B. M.	Montgomery, Ala.
FRAZER, M. A.	Auburn, Ala.
GARLIC, EDWARD.	Russell County, Ala.
GOLSAN, J. S.	Autaugaville, Ala.
GRACE, J. P.	Allenton, Ala.
GRAVES, C.	Manac, Ala.
GREEN, JOHN A.	Lee County, Ala.
GUTHRIE, W. J.	Benton, Ala.
HALL, I. C.	Opelika, Ala.
HALL, L. T.	Autaugaville, Ala.
HAIGLER, L. H.	Manac, Ala.
HARBIN, P. G.	Hayneville, Ala.

Names.	Residence.
HARPER, W. S. . . . .	Greenville, Ala.
HAWES, HARRIS, . . . . .	Hayneville, Ala.
HAYES, J. T. . . . .	Union Springs, Ala.
HORNE, W. E. . . . .	Union Springs, Ala.
HOWARD, R. F. . . . .	Tuskegee, Ala.
HUGULEY, AMOS, . . . . .	Auburn, Ala.
HUGULEY, J. M. . . . .	Auburn, Ala.
HUNTER, F. H. . . . .	Tuskegee, Ala.
IRWIN, R. A. . . . .	Eufaula, Ala.
JEMISON, JOHN S. . . . .	Tuscaloosa, Ala.
JOHNSON, B. H. . . . .	Tallapoosa Co., Ala.
JONES, B. F. . . . .	Fort Browder, Ala.
KENDRICK, G. P. . . . .	Greenville, Ala.
KENDRICK, W. T. . . . .	Leon, Ala.
LAMPKIN, W. W. . . . .	Auburn, Ala.
LAZENBY, J. E. . . . .	Butler Springs, Ala.
MCNEILL, DUBOSE, . . . . .	Autaugaville, Ala.
MCNEILL, W. . . . .	Clayton, Ala.
MILLIGAN, W. F. . . . .	Milton, Florida.
MIZELL, D. B. . . . .	Dale County, Ala.
MOORE, M. H. . . . .	Auburn, Ala.
MOORE, O. D. . . . .	Lee County, Ala.
MOONE, W. H. . . . .	Lee County, Ala.
MOTLEY, C. J. . . . .	Tuskegee, Ala.
NISBET, F. L. . . . .	Russell Co., Ala.
NORWOOD, JOSEPH, . . . . .	Fort Deposit, Ala.
OLIN, J. A. . . . .	Pine Level, Ala.
PALMER, W. O. . . . .	Greenville, Ala.
PERDUE, J. L. . . . .	Greenville, Ala.
PERRY, W. M. . . . .	Columbus, Ga.
PERSONS, F. S. . . . .	Auburn, Ala.
POLLARD, SIDNEY, . . . . .	Montgomery, Ala.
POWELL, R. F. . . . .	Benton, Ala.
REDDOCK, W. L. . . . .	Rutledge, Ala.
RILEY, MONCH, . . . . .	Leon, Ala.
RILEY, W. T. . . . .	Auburn, Ala.
RIVERS, E. R. . . . .	Glennville, Ala.
ROSS, W. W. . . . .	Lee County, Ala.
ROSSER, L. V. . . . .	Tuscaloosa, Ala.
ROUNSAVALL, R. O. . . . .	Tuskegee, Ala.
ROWE, A. H. S. . . . .	Auburn, Ala.
RUFFIN, J. E. . . . .	Rockford, Ala.
RUTLEDGE, J. F. . . . .	Auburn, Ala.
RUTLEDGE, P. R. . . . .	Auburn, Ala.
RUTLEDGE, W. T. . . . .	Auburn, Ala.
SCHEUSSLER, CALVIN, . . . . .	Montgomery, Ala.
SCOTT, W. J. . . . .	Montgomery, Ala.
SELIG, AARON, . . . . .	Opelika, Ala.

Names.	Residence.
SHAW, B. F. . . . .	Notasulga, Ala.
SOLOMON, E. W. . . . .	Villula, Ala.
SPIGENER, G. C. . . . .	Prattville, Ala.
STAGGERS, J. M. . . . .	Benton, Ala.
TOWNSEND, S. O. . . . .	Montgomery Co., Ala.
UPSHAW, J. W. . . . .	Russell County, Ala.
WAGNER, E. . . . .	Montgomery, Ala.
WALKER, BENJAMIN, . . . . .	Tallapoosa Co., Ala.
WATTS, J. M. . . . .	Butler Springs, Ala.
WEBB, O. F. . . . .	Greenville, Ala.
WILKINSON, A. T. . . . .	Autauga County, Ala.
WILLIAMS, WILEY, . . . . .	Lee County, Ala.
WILLIAMSON, C. R. . . . .	Oak Bowery, Ala.
YELDELL, W. J. . . . .	Monterey, Ala.
YOUNG, B. C. . . . .	Montgomery, Ala.

## GRADUATES.

BURT, R. E. L. . . . .	Master of Arts.
WILLIAMSON, C. R. . . . .	Master of Arts.
ROUNSAVALL, R. O. . . . .	Bachelor of Arts.
SPIGENER, G. C. . . . .	Bachelor of Arts.
HORNE, W. E. . . . .	Civil-Engineer.

Number of Cadets, 103.

Number of Graduates, 5.

## OBJECTS OF THE COLLEGE.

---

"Its leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the states may respectively prescribe, in order to promote the *liberal* and practical education of the industrial classes in the several pursuits and professions in life." (*Act of Congress, 1862, sec. 4.*)

"That there be and hereby is established at Auburn, in Lee County, Alabama, a college for the benefit of agriculture and the mechanic arts, whose leading object shall be, without excluding other *scientific* and *classical* studies, and including military tactics, to teach such branches of learning as relate to agriculture and the mechanic arts, in conformity to an act of the Congress of the United States, entitled an act donating public lands to the several states and territories, approved July 2, 1862." (*Act No. 65, of General Assembly of Alabama, approved Feb. 26, 1872.*)

In accordance with the two acts above quoted, and under which this College was organized, it holds as its leading object to afford the most thorough instruction which its means will allow in the branches of learning pertaining to the *industrial* arts, or necessary to "the *liberal* and *practical* education of the industrial classes in the several pursuits or professions of life." Its objects and purposes will be best understood by a general survey or brief synopsis of its course of instruction.

### I. SCIENTIFIC AGRICULTURE.

Embracing soil-culture in all its varieties, and for all crops; Animal Husbandry, Stock-breeding, Feeding, etc.; Veterinary Science; Agricultural Chemistry; Rural Engineering and Drainage of Lands.



## II. CIVIL AND MINING ENGINEERING.

Including Land and Government Surveys, Railroads, Canals, Bridge-building, Topographical Surveys and Leveling, Mine Surveys, Sinking and Tubing of Shafts, Driving of Adits and Methods of Working, Assaying, Treatment of Ores, and Metallurgy.

## III. MILITARY TACTICS.

Manual of Arms; Squad, Company, and Battalion Drill; Brigade and Division Evolutions; Military Arms, Roads, and Fortifications.

## DEPARTMENTS OF INSTRUCTION.

Requisite to secure proficiency in and completion of above courses.

1. MATHEMATICAL SCIENCE—Pure and Applied, Natural Philosophy, and Astronomy.
2. ENGLISH LANGUAGE AND LITERATURE—A thorough and extended course in Grammar, Rhetoric, Criticism, Essay-writing, and study of the English Classics.
3. ANALYTICAL CHEMISTRY—Chemistry applied to the Arts; Laboratory Practice with re-agents, blow-pipe, and spectroscope. A full course to fit students to become chemists, druggists, and pharmacutists.
4. NATURAL HISTORY—Botany, Zoölogy, Geology, and Physical Geography.
5. HISTORY AND SOCIAL SCIENCE—General and Special History, Political Economy, Rural and Constitutional Law.
6. MENTAL AND MORAL PHILOSOPHY, AND LOGIC.
7. MODERN AND ANCIENT LANGUAGES—French, German, Latin, and Greek.
8. DRAWING—Architectural Drawing, Free-hand, Projection, etc.

## FREEDOM AND CHOICE OF COURSES.

This Institution being intended for young men who may claim to know something of their own wants, powers, and tastes, great freedom in choice of courses is allowed; subject, however, to such necessary conditions as the proficiency of the student himself, the progress of the classes, or the convenience in teaching require.

It is necessarily required: *first*, that students shall be thoroughly prepared to enter and keep pace with the classes in the

studies chosen ; and *second*, that they shall take these studies in the *terms* in which they are taught.

It is expected that each student shall have *three* distinct studies, affording *three* class exercises each day. But on special application to the Faculty he may be allowed less or more, to meet the exigencies of his course.

No changes can be made in studies after the beginning of a term without permission of the Faculty.

It is recognized that students will often need advice in the selection of studies and in the arrangement of a proper course. To meet this need the Faculty have carefully arranged *four* courses of study. The first, denominated the "Course for all Students," beginning with the Elements, is so arranged as to furnish to students a good training for the active business concerns of life, or for the *special* and *higher* courses of study given afterward. In this course instruction is given in the ancient and modern languages, and it is recommended that here is the proper time and point in a student's course for him to decide as to what his *future* higher course shall be, and here to begin the preparation for it.

Of course each student seeking admission will be examined by the Committee of Examination, and his class location will always be determined by his proficiency in the studies pertaining to the *higher course* which he may desire to select.

# COURSE OF STUDY FOR ALL STUDENTS

## FOR THREE YEARS.

### CLASS FIFTH.

- MATHEMATICS.....\* *First Term.*—Higher Arithmetic (Towne's) reviewed.  
*Second Term.*—Elementary Algebra; Geometry objectively considered.
- ENGLISH LANGUAGE....\* *First Term.*—English Grammar; Composition (Bonnell's First); Reading.  
*Second Term.*—Descriptive Geography; History of United States; Rhetorical Reading.
- PHYSICS.....† *First Term.*—Peck's Ganot's Elementary Physics.
- NATURAL HISTORY..... *Second Term.*—Physical Geography; Elements of Botany.
- DRAWING.....\* *First Term.*—Penmanship; Plain Drawing.  
*Second Term.*—Penmanship; Plain Drawing.
- LATIN LANGUAGE‡.....\* *First Term.*—Latin Lessons (Leighton's), with Allen and Greenough's Latin Grammar.  
*Second Term.*—Cæsar's Gallic War, with Exercises and Grammar.
- MILITARY .....\* *First and Second Terms.*—Drill.

### CLASS FOURTH.

- MATHEMATICS.....\* *First Term.*—Geometrical Concepts: the Point, the Line, and Plane Surfaces (Olney); Involution, Logarithms, and use of Tables (Towne).  
*Second Term.*—Plane Trigonometry.
- ENGLISH LANGUAGE....† *First Term.*—Composition; Reading Prose and Poetry; History.  
*Second Term.*—The same subjects continued; Analysis of Words and Sentences.
- CHEMISTRY.....\* *First Term.*—Inorganic; Chemical Symbols; Elements of Geology (Barbee).
- AGRICULTURE..... *Second Term.*—Elements of Practical Agriculture; Uses of Agricultural Implements.
- GEODESY..... *Second Term.*—Compass and Chain Surveying.
- DRAWING .....‡ *First Term.*—Warren's Drafting Instruments and Operations.  
*Second Term.*—Topographical Drawing.
- MILITARY.....\* *First and Second Terms.*—Drill.

\* Five recitations per week.

† Three recitations per week.

‡ Two recitations per week.

§ After the session of 1873 the Course in this Class will be required for admission, and corresponding changes will be made in the advanced classes.

LATIN LANGUAGE.....\* *First Term.*—Allen's Latin Selections, with Exercises and Grammar.

*Second Term.*—The same continued; Virgil begun (Chase and Stuart).

GREEK LANGUAGE $\frac{1}{2}$ .....\* *First Term.*—Greek Lessons (Leighton's), with Goodwin's Greek Grammar.

*Second Term.*—The same continued; two Books of the Anabasis (Boise).

### CLASS THIRD.

MATHEMATICS .....\* *First Term.*—Geometry of Solids, bounded by right lines; Spherical Surfaces; Spherical Projections; Spherical Trigonometry (Olney).

*Second Term.*—Geometry of Invention; Applications of Algebra to Geometrical Solutions (Olney and Hallowell).

ENGLISH LANGUAGE....† *First Term.*—Study of English as a Language—Origin and History; Exercises in Original Composition and Declamation; Rhetoric.

*Second Term.*—General History; Composition and Declamation continued.

CHEMISTRY.....\* *First Term.*—Lectures and Recitations (Fownes's new edition.)

*Second Term.*—Lectures and Recitations in Organic Chemistry, as applied to Industrial Pursuits.

NATURAL HISTORY.....‡ *First Term.*—Zoölogy; Habits of Animals; Human and Comparative Anatomy; Physiology and Hygiene (Hitchcock).

*Second Term.*—Physiology of Plants and Animals as illustrated in their Growth, Nutrition, and Respiration.

AGRICULTURE.....|| *First Term.*—Lectures and Excursions.

*Second Term.*—Lectures and Excursions.

GEODESY.....† *First Term.*—Farm Surveying; Practice, Plane Table Surveying; Theory and Practice: use of Field Instruments.

*Second Term.*—Theory and Practice: Trigonometrical and Topographical Surveying and Leveling.

TOPOGRAPHICAL DRAWING—Maps of Farms.

LATIN LANGUAGE.....\* *First Term.*—Virgil; Prosody; Latin Exercises.

*Second Term.*—Cicero's Select Orations; Allen's Prose Composition.

GREEK LANGUAGE.....\* *First Term.*—Goodwin's Reader, with Grammar and Exercises.

*Second Term.*—The same continued; Prose Composition.

MILITARY.....\* *First and Second Terms.*—Drill.

\* Five recitations per week.

‡ Two recitations per week.

§ After the session of 1873 this will be transferred to the Fifth Class, with corresponding changes in the advanced classes.

† Three recitations per week.

|| Six recitations per week.



## SPECIAL AND HIGHER DEPARTMENTS.

*1. Course in Agriculture.*

The aim of this Course is to educate scientific agriculturists. The frequency with which this aim is misunderstood by the community at large demands that it shall be carefully explained. Many, looking upon agriculture as consisting merely in the manual work of plowing, planting, cultivating, and harvesting, and in the care of stock, justly ridicule the idea of teaching these arts in a college. The practical farmer, who has spent his life in farm labors, laughs at the notion of sending his son to learn these from a set of scientific professors. But all this implies a great misunderstanding of the real object of agricultural science. It is not to teach *how* to plow, but the reason for plowing at all; to teach the composition and nature of soils, the philosophy of plowing, of manures, and the adaptations of the different soils to different crops and cultures. It is not simply to teach how to feed, but to show the composition, action, and value of the several kinds of food, and the laws of feeding, fattening, and healthful growth. In short, it is the aim of the true Agricultural College to enable the farmer to understand thoroughly and profoundly all that men can know about soil and seed, plants and animals, and the influences of light, heat, and moisture on his fields, his crops, and his stock; so that he may both understand the reason of the processes he uses and may intelligently work for the improvement of those processes. Not "book farming," but a knowledge of the real nature of all true farming, of the great natural laws of the farm and of all its phenomena; this is the true aim of agricultural education. And when it is recollected that agriculture involves the principles of a larger number of sciences than any other human employment or profession, it will not be regarded as an unfit end of a sound collegiate training.

The instruction unites as far as possible theory and practice: theory explaining practice, and practice illustrating and enforcing theory.

The College owns two hundred acres of land favorably located for an experimental farm, garden, and orchard. The lands are composed of a light sandy loam, with a red clay subsoil, easily worked, and susceptible by high cultivation of great productiveness. Upon these lands, which are admirably suited to the purpose by diversity of soil, experiments illustrative of the principles and theories of the lecture-room will be made, to which the attention of all the students will be drawn. These experiments will be conducted with a view to advance the general farming interests of Alabama, by pointing out the constituent elements and character of different soils and their adaptation to various crops, the nature of manures and the best methods of applying them, and the principles of vegetable growth.

#### CLASS SECOND.

- MATHEMATICS ..... *First Term.*—Analytical Geometry: Bilinear and Polar Coordinates; the Conics, their properties; Higher Plane Curves (Loomis and Puckle).  
*Second Term.*—Differential and Integral Calculus: General Principles and Notation; Derivatives and Integrals of Simple Functions (Loomis and Olney).
- PHYSICS ..... *First Term.*—Thermotics, Acoustics, Optics, Electricity, Magnetism, Thermodynamics, Electrodynamics (Silliman).
- ASTRONOMY ..... *Second Term.*—Descriptive; Spherical; Application to Practical Problems in determining the rising and setting of the Sun; Length of Days; use of Portable Instruments in determining Geographical Positions (Loomis).
- CHEMISTRY ..... *First Term.*—Special Chemistry (Agricultural); Experiments.  
*Second Term.*—Chemistry and Physiology; Structure and Physiology of Plants, Water, Atmosphere, and Soils in their relations to Vegetable Productions; Improvement of the Soil by Chemical and Mechanical Means; Domestic Animals, the Chemical Relations of their Food, Digestion, Respiration, Assimilations, and Excretions; Milk, Butter, Cheese, Flesh, and Wool as Agricultural Products.

AGRICULTURE.....	<i>First and Second Terms.</i> —1. Its Principles; its Development and Present Condition as an Art; its Connection with the several Branches of Science; the Economic Requisites of Vegetable Growth, including Soils and the Theory of Manures. 2. Its Processes: Tillage, Plowing; the Physical Manipulations of the Land; Implements and Machinery; Drainage, Irrigation, etc.; the Practice of Manures; Farm-buildings, their Construction and Arrangement. 3. Its Products: the Cereals, their Cultivation, their Management, and Uses; Root Crops and Legumes; Grasses, and Care of Pasture-lands; Rotation of Crops, and the use of artificial Fertilizers.
DRAWING .....	<i>First and Second Terms.</i> —Designs for Farm Machinery; Plans for Farm-houses; Contour Maps.
METEOROLOGY.....	<i>First Term.</i> —The Science of Meteorology, and the Method of Keeping a Meteorological Register.
GEODESY.....	<i>Second Term.</i> —Farm Surveying; Survey of Common Roads; of Water-courses for Irrigation and Drainage (Gillespie).
BOOK-KEEPING.....	<i>First and Second Terms.</i> —With special reference to Farm Accounts; the Law of Titles, Contracts, and Accounts. (Lectures.)
EXCURSIONS .....	<i>First and Second Terms.</i> —Agricultural, Botanical, Geological; Engineering.
LANGUAGE .....	<i>First and Second Terms.</i> —Latin, French, or German. (Optional.)
MILITARY.....	<i>First and Second Terms.</i> —Tactics (Upton).

# CLASS FIRST.

MATHEMATICS .....	<i>First and Second Terms.</i> —Construction of Higher Equations; Comparison of Methods of the Calculus; History and Philosophy of Mathematics (Bledsoe and Compte).
MECHANICS.....	<i>First Term.</i> —Mechanics of Solids; of Fluids; Practical Problems. <i>Second Term.</i> —Friction; Strength of Materials; Practical Hydraulics; Practical Pneumatics (Smith).
NATURAL HISTORY.....	<i>First Term.</i> —Mineralogy; Lithology; Descriptive Geology; Technical Geology; Zoölogy; History of Domestic Animals; the Care, Breeding, and Raising of Domestic Animals, their Diseases and Treatment; Entomology: Insects useful and injurious to Vegetables.
AGRICULTURE.....	<i>Second Term.</i> —The Staple Crops of United States; their Varieties, Cultivation, Management, and Preparation for Market; Orchard Culture, Raising of Fruits and Vines.

CHEMISTRY .....	<i>First and Second Terms.</i> —Experimental: Laboratory Practice; Analysis, Qualitative both with the Blow-pipe and in the Humid way; Quantitative by both the Gravimetric and Volumetric Methods.
DRAWING.....	<i>First and Second Terms.</i> —Free-hand, Sketching, Landscape.
EXCURSIONS.....	<i>First and Second Terms.</i> —Agricultural, Botanical, Geological; Engineering.
LANGUAGE.....	<i>First and Second Terms.</i> — Latin, French, or German. (Optional.)
MILITARY.....	<i>First and Second Terms.</i> —Tactics.

NOTE.—Number recitations per week are according to various circumstances.

## *II. Course in Civil and Mining Engineering.*

The Course of Study in Civil and Mining Engineering, set forth in the following programme or tabular arrangement of studies, is new, comprehensive, and definite. It should be stated here that civil-engineering is understood to include mechanical or dynamical engineering, as well as road engineering, hydraulic engineering, bridge engineering, etc. By reference to the tabular statement it will be seen that the wants of the student of mechanical engineering have been anticipated and as well provided for as could be possibly done. The studies of the first *three* years (or Course for all Students) have for their object the establishment of a broad and substantial basis of disciplinary culture, literary, scientific, and artistic. The studies of the fourth and fifth years are essentially practical and technical. The studies of the course are designed to secure to all who have duly complied with the various requirements—in other words, to its *graduates*—a professional preparation at once thorough and practical, for the various specialties of engineering practice.

### CLASS SECOND.

MATHEMATICS.....	<i>First and Second Terms.</i> —Same as Course in Agriculture.
PHYSICS.....	<i>First Term.</i> —Same as in the Course in Agriculture.
ASTRONOMY.....	<i>Second Term.</i> —Same as in the Course in Agriculture.
DRAWING.....	<i>First and Second Terms.</i> —Bridge Drawing. <i>Second Term.</i> —Sketches of Tools, of the Component Parts of Machines, and of Bridges and other structures.
GEODESY.....	<i>First Term.</i> —Hydrographical, Topographical, and Town Surveying. Theory and Practice. <i>Second Term.</i> —Line Surveying: Common Roads; Railroads; Canals; Tunnels; Staking-out for Constructions.

- LANGUAGE..... *First and Second Terms.*—French: Reading and Translation of Scientific Works. Latin; German. (Optional.)  
 MILITARY ..... *First and Second Terms.*—Tactics (Upton).

CLASS FIRST.

- MATHEMATICS..... *First and Second Terms.*—Same as in the Course in Agriculture.  
 METALLURGY..... *Second Term.*—General Metallurgy: Iron Metallurgy; Mining.  
 MECHANICS..... *First Term.*—Rational: of Solids; of Fluids; Practical Problems.  
                                   *Second Term.*—Physical: of Solids; of Fluids; Friction; Strength of Materials; Practical Hydraulics; Practical Pneumatics.  
 MACHINES..... *First and Second Terms.*—General Theory of Machines; Description of Prime Movers; Theory of Prime Movers; Steam - engines; Air - engines; Electro - magnetic Engines; Hydraulic Motors; Wind Motors; Construction and Location of Machines; Designs for and Reviews of special Machines.  
 CHEMISTRY..... *First Term.*—Qualitative Analysis, both with the Blow-pipe and in the Humid way, including the Testing of Ores and Mineral Waters.  
 MINING..... *First and Second Terms.*—Lectures on Mining; the Different Methods of Working Mines; Mining Machinery; History and Statistics of Mining generally.  
 ROAD ENGINEERING..... *First and Second Terms.*—Common Roads; Railroads; Canals; Tunnels.  
 TOPOGRAPHICAL } *First and Second Terms.*—Plans, Profiles, and Sections of  
 DRAWING } Railroad Surveys.  
 LANGUAGE..... *First and Second Terms.*—French (course continued); Latin; German. (Optional.)  
 MILITARY ..... *First and Second Terms.*—Tactics.

III. Course in Literature and Science.

Proficiency in the Three Years' Course will be required for admission into this department. The object of this course is to furnish a sound and liberal education for the general duties of life, and especially to prepare young men for those business pursuits which require a large measure of literary and scientific knowledge and training. It is designed to meet the wants of those who wish to fit themselves for the labors of the press, as



editors or publishers, or as teachers in the higher institutions, or for the transaction of public business.

Students in the Agricultural and Mechanical Courses often desire to educate themselves as teachers, writers, and professors in their special departments, and require a knowledge of the ancient as well as modern languages to give them full command of all the instruments and facilities required for the highest proficiency in their studies and proposed work. The College seeks through this course in the different classes to provide for this important part of its mission—the furnishing of teachers and business-men of scientific and liberal culture. Thorough training in the English language and literature is sought to be given by regular and systematic instruction in grammar and composition, and by the study of the English classics. No certificate of proficiency in any department will be granted unless the special excellence is accompanied by a creditable knowledge of the English language.

#### CLASS SECOND.

MATHEMATICS..... *First and Second Terms.*—Same as in the Courses of Engineering and of Agriculture.

PHYSICS..... *First Term.*—Same as in the Courses of Engineering and of Agriculture.

ASTRONOMY..... *Second Term.*—Same as in the Courses of Engineering and of Agriculture.

ANCIENT LANGUAGES.... *First Term.*—Latin: Horace; Prosody; Prose Composition (Allen).

*Second Term.*—Latin: the same continued; Livy (Chase and Stuart).

*First Term.*—Greek: Homer; Prosody; Prose Composition.

*Second Term.*—Greek: Demosthenes's Popular Orations; Prose Composition.

MODERN LANGUAGES..... *First and Second Terms.*—French and German. (Optional.)

POLITICAL PHILOSOPHY. *First Term.*—Political Economy; Constitution of United States.

*Second Term.*—Logic; History.

ENGLISH LITERATURE... *First Term.*—English Literature (Shaw); American Literature.

*Second Term.*—Oratory; Original Speeches; Declamation.

MILITARY ..... *First and Second Terms.*—Tactics (Upton).



CLASS FIRST.

- MATHEMATICS..... *First and Second Terms.*—Same as in the Courses of Engineering and of Agriculture.
- MECHANICS..... *First and Second Terms.*—Same as in the Courses of Engineering and of Agriculture.
- ANCIENT LANGUAGES.... *First Term.*—Latin: Cicero and Quintilian (selections by Kellogg); Exercises.  
*Second Term.*—Latin: the same continued; Terence; Tacitus.  
*First Term.*—Greek: Alcestis of Euripides; Exercises and Grammar.  
*Second Term.*—Greek: Œdipus of Sophocles; Goodwin's Syntax of the Moods and Tenses.
- MODERN LANGUAGES..... *First and Second Terms.*—French and German; or either may be substituted for the Greek of this class.
- PHILOSOPHY ..... *First Term.*—Mental Philosophy; Evidences of Christianity.  
*Second Term.*—Philology; Moral Philosophy.
- ENGLISH LANGUAGE..... *First Term.*—Criticism and Oratory.  
*Second Term.*—Original Speeches.
- MILITARY..... *First and Second Terms.*—Tactics.

## TERMS OF ADMISSION.

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Applicants for admission must be at least fourteen years of age, and be thoroughly prepared to enter on the subjects of study laid down for the Fifth Class. For advanced standing a corresponding increase of age and completion of studies to that point in the course will be required.

Satisfactory testimonials of good moral character are in all cases required; and those who are admitted from other colleges must present certificates of dismissal showing good standing.

Applicants on arrival in Auburn must report themselves immediately to the President of the College.

The proper time—that is, the *best* time—for entering the classes is at the beginning of the scholastic year. Students are admitted, however, at the beginning of each term, or at any other time in the year; but if not fully prepared in the previous work of the class they are then obliged to make up their deficiencies by *extra efforts* during the term.

### PRIVILEGED STUDENTS.

The sons of ministers of the gospel in active service and young men preparing for the ministry are admitted to all the privileges of the College *free of tuition-fees*.

### STATE STUDENTS.

To render scientific education accessible to meritorious young men of limited means, provision has been made by the legislature for the admission of *two students* from each county without the payment of *tuition-fees*.

These students are nominated by the county superintendent, received into the College by the Faculty, and their appointments are approved by the Board of Directors. The term of appoint-

ment is for one session, and is prolonged from session to session upon the *recommendation* of the Faculty until graduation.

Each state student is restricted in his choice of course of study either to scientific agriculture or civil and mining engineering. He should be at least fifteen years of age, and should produce such testimonials of moral character and preparation as will insure profit both to the applicant and the College. These testimonials should be addressed to the President or to the Secretary of the Faculty.

#### PLAN OF INSTRUCTION.

The plan of instruction is by recitations from text-books and by lectures. In the less advanced classes the instruction is conducted chiefly by text-books. In the more advanced, after the student has acquired the habit of attention, lectures form a prominent feature.

The lower classes are divided into sections of moderate size, with a view to insure the more frequent examination of each student. This division of a class into sections is based as far as practicable upon the relative standing of its members.

## RECORDS AND EXAMINATIONS.

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### SESSION RECORDS.

Daily records of the various exercises of the classes are kept by the officers of instruction in a form adapted to permanent preservation. These are returnable weekly through the office of the commandant to the President, and give full information with regard to each student's position, both as respects observed characteristics of general conduct, and the knowledge displayed by him of the current subjects of study. From this record a circular or *monthly* statement is sent to the parent or guardian.

### SEMI-ANNUAL EXAMINATIONS.

Public examinations of all the classes of the College are held immediately preceding the close of each semi-annual term. These examinations, which are partly oral and in part written, are continued through a period of about *ten days*, and are made to cover the entire field of study for the term. An average of these with the daily, or sessional, standing determines the standing or grade of the student.

### RESULTS OF THE EXAMINATIONS.

Full records of the examinations are made; full credit is also given to each student for his good conduct; and from these data collectively each student's qualifications for being considered *passed* or *deficient* are determined. No change in class membership in passing from the *first* to the *second* term necessarily happens from the results of the first examination. At the close of the *second term* each student is required to be "passed" not only in the various studies of this term, but in all those studies of the previous term for which a record of deficiency had been

entered against him, *in order to satisfy the essential requisite for transference from a lower to a higher class*, in passing from the studies of one year to those of the succeeding year. *No student is permitted to be absent from these examinations.*

Examinations for Degrees or Certificates of Proficiency are held at such time as may be selected by the Faculty, usually during the last *four weeks* of the last term, and embrace in their scope the entire subjects of study in the course.

#### DEGREES.

1. *Proficiency*: Certificate, upon completion of "Course for all Students."
2. *Scientific Agriculture* (S. A.): Upon completion of the Course in Agriculture.
3. *Civil Engineer* (C. E.): Upon completion of the Course in Civil and Mining Engineering.
4. *Bachelor of Science and Literature* (B. S. & L.): Upon the completion of the Course in Science and Literature.
5. *Doctor of Philosophy* (Ph. D.): Upon the completion of all the Courses.

No student will be allowed to receive any Certificate of Proficiency or to receive any Degree until he shall have prepared and submitted to the Faculty a *Thesis* on some subject of immediate relation to the studies of his course. It may be necessary to read and defend this thesis before the class, or to read or to deliver it upon the Commencement-day.

NOTE.—It is not expected that the Degree of PH. D. will be conferred very often, yet it has been instituted with a view to encourage those who have taste and time to pursue a wider field of scientific study than is usually offered by colleges.



## GOVERNMENT.

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As military science and tactics are required to be taught in this Institution both by the law of Congress and by act of the State Legislature, the government and discipline will be modeled after that of the best military schools. But military science is not made a leading object of the Course, since it is not the aim of this College to make proficient in arms, but simply to teach to all students the tactics, and even these more as a means of discipline and gymnastic exercise than as preparatory to the profession of the soldier. The government of the College therefore is administered by the President, Commandant, and Faculty in accordance with a Code of Laws and Regulations enacted by the Faculty and published; each student upon matriculating being furnished with a copy.

The President devotes himself to the duties of his office, occupying a room in the buildings to which the students have free access at stated times. He attends all examinations, presides at all the meetings of the Faculty, and by the reports of the several Professors, through the Commandant, is made acquainted with the standing and deportment of each student. All cases of irregularity receive his personal attention.

Students receive the admonition and counsel of the President before being subjected to any penalty, except in case of flagrant offenses. Those who are habitually neglectful of their duties, or who do not regularly attend their classes, will be required to withdraw from the College.

No student is allowed to leave the town during the session without the permission of the President, on application through the Commandant.

## RELIGIOUS AND MORAL CULTURE.

Religious services are held every morning in the chapel. The students are required to attend these exercises, and are expected



to attend the church of their choice at least once on Sunday. Opportunities are also afforded for attending Bible-classes every Sunday.

By statute of the state the sale of spirituous liquors and the keeping of gaming-saloons of every kind within five miles of Auburn are forbidden.

### LOCATION.

Auburn, the seat of this College, is immediately on the Western Railroad, the great thoroughfare connecting New Orleans, Mobile, Selma, and Montgomery with Opelika, West Point, Columbus, and Atlanta. Four passenger-trains, besides four freight and accommodation-trains, pass Auburn daily, making close connection with the Montgomery & Eufaula, the South & North, the Memphis & Savannah, and the East Alabama & Cincinnati Railroads; thus rendering the College very accessible from every portion of the state.

### BUILDING.

The college-building is equal to the best in the country. Finished just at the beginning of the war, it is new and in good repair. The recitation-rooms are large and well constructed. The two society halls are very spacious, each capable of accommodating without difficulty one hundred members.

### LITERARY SOCIETIES.

The WIRT and WEBSTERIAN societies connected with the College furnish the student fine facilities for improvement. They have ample halls in the college-building, which have been fitted up in the most attractive and elegant style. Their libraries already contain many of the most valuable literary productions of the present and past ages. Much interest is felt in these societies by both students and Faculty.

### APPARATUS, CABINET, AND MUSEUM.

The apparatus, both chemical and philosophical, is already sufficient, and additions will be made thereto. The Cabinet of Minerals is very comprehensive, embracing the life-time collection of Professor Darby. The Museum is small, but contains some rare and wonderful specimens. It too is receiving an increase. Natural science in all its branches receives particular attention, and every facility in the way of experiment and illustration is offered to the student.

We earnestly request the citizens of the state to forward to the Professor of Mineralogy and Geology any specimens which may be useful in the geological study of Alabama.

## EXPENSES.

Tuition Fee, for term from January 1 till July 30 ( <i>on entrance</i> ),	\$50 00
Surgeon's Fee ( <i>on entrance</i> ), . . . . .	5 00
Board per month (extra fuel, lights, and washing),	\$14 00 to 18 00

Students are required to pay for all damages done to the College or any of its property, as is prescribed in the Rules and Regulations of the College.

## BOARDING.

Hereafter students after selecting their boarding-houses, with the approval of the Faculty, will not be permitted to make changes without *first* obtaining permission from the Faculty.

Applications will only be granted on good and sufficient reasons, or at the *written* request of the parent or guardian.

The Faculty will feel authorized to remove students from boarding-houses when it becomes manifest that they are failing in their duties from improper associations, or for any other reason demanding such removal.

Parents and guardians are advised to send all money for payment of tuition and board to the Treasurer of the College, with instructions for its appropriation.

## STUDENTS' FURNISHING.

*Drawing-Instruments.*—The instruments used at the College are the Swiss, which are preferred both for their general excellence and moderate cost. The instruments, with the materials for geometrical and topographical drawing, cost from fifteen to thirty-five dollars. The student is advised to defer his purchases of drawing-instruments and materials until he comes to the College, when he will have the advantage of procuring them under the direction of the Professor of Drawing.

*Text-books and Stationery.*—The text-books, etc., used at the College may be purchased at the bookstore. The student is advised, however, to bring such books as he may possess.

#### UNIFORMS.

The students will be required to wear a fixed uniform as cadets. This uniform consists of a cadet gray-mixed cloth, of the same color and quality as that worn at West Point, to be styled the "dress-suit;" a much cheaper uniform will also be furnished, styled the "fatigue-suit," to be worn generally by the students. These, however, will cost less in the aggregate than the ordinary clothing of young men at other colleges.

# FACULTY AND OFFICERS

For 1873.

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REV. I. T. TICHENOR, D. D.,  
*President and Professor of Agriculture.*

ALEXANDER HOGG, A. M.,  
*Professor of Mathematics.*

J. T. DUNKLIN, A. M.,  
*Professor of Languages.*

W. C. STUBBS, A. M.,  
*Professor of Natural Science.*

R. A. HARDAWAY, C. E., A. M.,  
*Commandant and Professor of Civil Engineering.*

OTIS D. SMITH, A. M.,  
*Assistant Professor.*

J. B. READ, M. D.,  
*Surgeon.*

E. T. GLENN,  
*Quartermaster and Superintendent of Farm.*

## LIST OF BOOKS

GIVEN TO THE LIBRARY DURING THE PAST YEAR.

- 
- Patent-office Reports from 1859 to 1871. Presented by the Commissioner.  
 Reports of Department of Agriculture, from 1863 to 1871. Presented by the Commissioner.  
 Reports of Department of Education, 1870-'71. Presented by the Commissioner, General John Eaton, jr.  
 Army Register of the United States. Presented by General Townsend.  
 Report of Department of Education, 1871. Presented by Hon. W. A. Handly.  
 Report of the Smithsonian Institute, 1869, with various other Reports of the Paris Exposition. Presented by Hon. Geo. Vickers.  
 Copies of Monthly Reports of Agriculture. Presented by the Commissioner, Hon. Frederick Watts.  
 Copy of the Proceedings of the Trustees of the Peabody Fund, 1871 and 1872. Presented by Hon. Robert C. Winthrop.  
 Baldwin's Locomotive Engine Building. Presented by Col. Robert A. Hardaway.  
 Reports Philosophical. Presented by Col. Robert A. Hardaway.  
 Official Gazette of the United States Patent Office (weekly). Sent by the Commissioner of Patents.
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## CALENDAR FOR 1873.

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- Session begins.....Wednesday, January 1.  
 Commencement Sermon.....Sunday, July 27.....11 A. M.  
 Agricultural Address.....Monday, July 28. ....11 A. M.  
 Celebration of Wirt Society.....Monday, July 28..... 8 P. M.  
 Address before the Societies.....Tuesday, July 29.....11 A. M.  
 Meeting of the Board of Directors .....Tuesday, July 29..... 1 P. M.  
 Review of the Corps of Cadets.....Tuesday, July 29..... 4 P. M.  
 Celebration of the Websterian Society.....Tuesday, July 29..... 8 P. M.  
 Commencement Day.....Wednesday, July 30.....10 A. M.



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$\frac{2}{3}$ column.....	12	20	27	33	38	42	56	74
$\frac{1}{2}$ column.....	10	17	23	28	32	35	47	62
$\frac{1}{4}$ column.....	7	12	16	20	24	28	40	54
$\frac{1}{8}$ column.....	5	10	14	18	22	25	33	45

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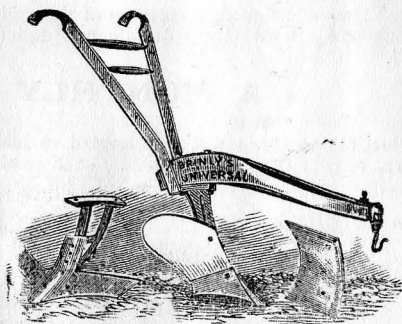
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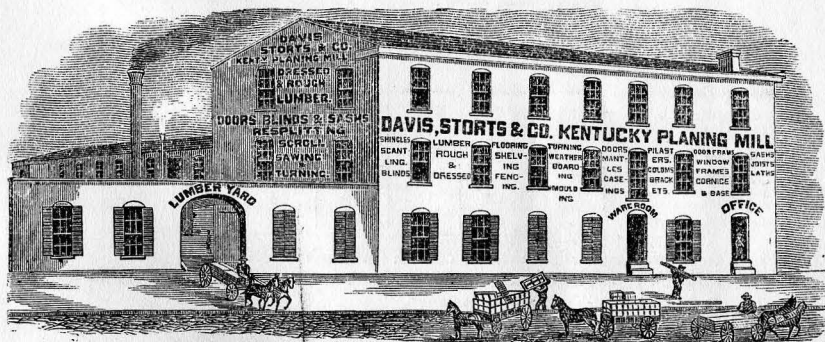
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